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## INDEX TO AMERICAN BOTANICAL LITERATURE

1907-1921

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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**Adams, J. F.** Rusts of conifers in Pennsylvania. Pennsylvania State Coll. Bull. 160: 3-30. *f. 1-10.* D 1919.

**Adams, J. F.** Sexual fusions and development of the sexual organs in the peridermiums. Pennsylvania State Coll. Bull. 160: 31-76. *pl. 1-5 + f. 1-8.* D 1919.

**Alexander, W. P.** What spring means to the lover of flowers. Hobbies 2<sup>2</sup>: 3-9. Je 1921. [Illust.]  
Discusses wild flowers near Buffalo, New York.

**Allen, R. F.** Resistance to stem rust in Kanred wheat. Science II. 53: 575. 576. 24 Je 1921.

**Ashe, W. W.** Suggestions for a national arboretum. Jour. For. 19: 562-564. My 1921.

In a footnote are made many new combinations of *Tsutsusi* (*Azalea*).

**Ball, C. R.** Undescribed willows of the section *Cordatae*. Bot. Gaz. 71: 426-437. *f. 1.* 17 Je 1921.

Includes *Salix monochroma* sp. nov. from Wyoming.

**Barrus, M. F.** Physiological diseases of potatoes. Rep. Quebec Soc. Protect. Plants 9: 45-53. 1917 [Illust.]

- Baxter, S. N.** The sassafras. Flor. Exch. **51**: 1469. 25 Je 1921.  
[Illust.]  
A trio of mammoth trees [near Philadelphia] and shoulder formation seldom seen.
- Beccari, O.** Le palme americane della tribù delle Corypheeae. Webbia **2**: 1-343. D 1907.  
Includes new species in *Sabal* (5), *Brahea* (2), *Erythea* (1), *Copernicia* (4), *Thrinax* (3), *Coccothrinax* (3).
- Becerra, M. E.** La "Papaya Orejona" (*Pileus pentaphyllus*). Mem. Soc. Cient. Antonio Alzate **37**: 357-361. pl. 36. Ap 1921.  
A new species from Mexico.
- Benoist, R.** Contribution à l'étude de la flore des Guyanes. Bull. Soc. Bot. France **66**: 261-266, 317-328. 4 F 1920; 357-370, 381-398. 7 My 1920.  
Includes new species in *Protium* (1), *Sclerolobium* (1), *Inga* (1).
- Blake, S. F.** The anay, a new edible-fruited relative of the avocado. Jour. Washington Acad. Sci. **9**: 457-462. f. 1. 4 O 1919.  
Describes 2 new species of *Hufelandia* from Central America.
- Blake, S. F.** A preliminary revision of the North American and West Indian avocados. Jour. Washington Acad. Sci. **10**: 9-21. f. 1, 2. 4 Ja 1920.  
Includes 2 new species of *Persea*.
- Blake, S. F.** Revision of *Ichthyomethia*, a genus of plants used for poisoning fish. Jour. Washington Acad. Sci. **9**: 241-252. 4 My 1919.  
Includes 2 new species.
- Blake, S. F.** The American species of *Maximiliana* (*Cochlospermum*). Jour. Washington Acad. Sci. **11**: 125-132. f. 1. 19 Mr 1921.  
Includes *M. triphylla* sp. nov. from Venezuela.
- Blakeslee, A. F.** The Globe mutant in the Jimson Weed (*Datura Stramonium*). Genetics **6**: 241-264. f. 1. My 1921.
- Boynton, K. R.** *Physalis Franchetii*. Addisonia **5**: 57, 58. pl. 189. 18 Je 1921.
- Boynton, K. R.** *Rudbeckia laciniata*. Addisonia **5**: 51, 52. pl. 186. 18 Je 1921.
- Bradley, C. B.** The phyllotaxy of *Phoenix canariensis*. Torreya **21**: 37-44. pl. 1, 2. Je 1921.
- Brainerd, E.** Violets collected at Tyson [Vermont]. Vermont Bot. and Bird Clubs Joint Bull. **7**: 18, 19. Ap 1921.
- Britton, N. L., & Rose, J. N.** *Neoabbottia*, a new cactus genus from Hispaniola. Smithson. Misc. Coll. **72**<sup>9</sup>: 1-6. pl. 1-4 + f. 1, 2. 15 Je 1921.

- Bryce, P. I.** A fungus club attacking the oak scale. Rep. Quebec Soc. Protect. Plants **9**: 110, 111. 1917.
- Bryce, P. I.** Can we improve potato storage methods? Rep. Quebec Soc. Protect. Plants **11**: 53-58. *pl.* 8. 1919.
- Burlingham, G. S.** Some new species of *Russula*. Mycologia **13**: 129-134. *pl.* 7 + *f.* 1-6. 25 Je 1921.  
Six new species from New England.
- Campbell, D. H.** The gametophyte and embryo of *Botrychium obliquum*, Mühl. Ann. Bot. **35**: 141-158. *pl.* 8 + *f.* 1-11. Ap 1921.
- Camus, J. S.** Rice in the Philippines. Philipp. Bur. Agr. Bull. **37**: 1-90. *pl.* 1-47. 1921.
- Carpenter, D. S.** Botanizing in Essex County [Vermont]. Vermont Bot. and Bird Clubs Joint Bull. **7**: 15-18. Ap 1921.
- Choate, H. A.** Chemical changes in wheat during germination. Bot. Gaz. **71**: 409-425. *pl.* 28 + *f.* 1, 2. 17 Je 1921.
- Coons, G. H.** Cherry leaf spot or yellow leaf. Michigan Agr. Coll. Quart. Bull. **3**: 93-96. F 1921. [Illust.]
- DeToni, G. B., Forti, A., & Howe, M. A.** A new species of *Laurencia* from Chile . . . : *Laurencia chilensis* sp. nov. Nuov. Notar. **32**: 150-153. *f.* 1-3. 1921.
- Dickson, B. T.** Some plant diseases in the greenhouse. Rep. Quebec Soc. Protect. Plants **11**: 46-48. *pl.* 3, 4. 1919.
- DuPorte, E. M.** Insect carriers of plant diseases. Rep. Quebec Soc. Protect. Plants **11**: 59-65. 1919.
- Durand, E. J.** New or noteworthy Geoglossaceae. Mycologia **13**: 184-187. 25 Je  
Includes 2 new species of *Trichoglossum*.
- Durham, G. B.** Growing tomatoes by tip cuttings. Jour. Hered. **12**: 40, 41. 6 Je 1921.
- Dutton, D. L.** *Aspidium fragrans* on Mount Horrid [Vermont]. Vermont Bot. and Bird Clubs Joint Bull. **7**: 27. Ap 1921.
- Eastman, H. & Smith, W. P.** Rare plants of Wells River [Vermont] and vicinity. Vermont Bot. and Bird Clubs Joint Bull. **7**: 23. Ap 1921.
- Engler, A.** Araceae-Aroideae und Araceae-Pistioideae. Pflanzenreich IV. **23** F: 1-274. *f.* 1-63. 6 Jl 1920.
- Engler, A.** Araceae. Pars generalis et index familiae generalis. Pflanzenreich IV. **23** A: 1-71. 9 Jl 1920.

- Eyster, W. H.** The linkage relations between the factors for tunicate ear and starchy sugary endosperm in maize. *Genetics* **6**: 209-240. My 1921.
- Fawcett, H. S.** Some relations of temperature to growth and infection in the *Citrus* scab fungus *Cladosporium Citri*. *Jour. Agr. Research* **21**: 243-253. 16 My 1921.
- Fawcett, H. S.** The temperature relations of growth in certain parasitic fungi. *Univ. California Publ. Agric. Sci.* **4**: 183-232. *f. 1-11*. 20 My 1921.
- Flynn, N. F.** Field Meeting of 1920. Vermont Bot. and Bird Clubs Joint Bull. **7**: 9-11. Ap 1921.  
Mentions plants seen.
- Flynn, N. F.** New plants for state [Vermont]. Vermont Bot. and Bird Clubs Joint Bull. **7**: 19. Ap 1921.
- Fontanel, G.** Facts about weeds and insects. *Rep. Quebec Soc. Protect. Plants* **9**: 112-117. 1917.
- Fontanel, [G.].** La taxonomie et la multiplication des espèces en botanique. *Natur. Can.* **47**: 174-182; 195-204; 224-234; 244-254. 1921.
- Gandoger, M.** Sertum plantarum novarum—II. *Bull. Soc. Bot. France* **66**: 216-233. 11 S 1919; 286-307. 4 F 1920.  
Includes new American species in many genera.
- Garman, P.** The relation of certain greenhouse pests to the transmission of a Geranium leaf spot. *Univ. Maryland Agr. Exp. Sta. Bull.* 239: 57-80. *f. 1-8*. O 1920.
- Harms, H.** Neue Arten der Gattungen *Calliandra* und *Pithecolobium*. *Repert. Spec. Nov. Regn. Veg.* **17**: 87-93. 1 Ap 1921.  
Includes new American species in *Calliandra* (10) and *Pithecolobium* (3).
- Harter, L. L., & Weimer, J. L.** Respiration of sweet potato fungi when grown on a nutrient solution. *Jour. Agr. Research* **21**: 211-226. *f. 1*. 16 My 1921.
- Hartley, C.** Damping-off in forest nurseries. *U. S. Dept. Agr. Bull.* 934: 1-99. *pl. 1 + f. 1-20*. 16 Je 1921.
- Hauman, L.** Orchidées Argentines. II. *Anal. Soc. Cient. Argentina* **90**: 95-154. *f. 1-15*. 1920.  
Includes new species in *Chloraea* (4), *Asarca* (1), *Stenorrhynchus* (2), *Stenoptera* (1), *Pleurothallis* (1).
- Haupt, A. W.** Embryogeny and sporogenesis in *Reboulia hemisphaerica*. *Bot. Gaz.* **71**: 446-453. *pl. 33 + f. 1-8*. 17 Je 1921.

- Hoehne, F. C.** Leguminosas forrageiras do Brasil. I. *Meibomia* Moehr. (*Desmodium* Desv.) Anex. Mem. Instit. Butantan Bot. 11: 1-54. *pl.* 1-21. 1921.
- Holzinger, J. M., & Frye, T. C.** Mosses of the Bureau of Soils Kelp Expedition to Alaska. Publ. Puget Sound Biol. Sta. 3: 23-64. *pl.* 5-8. 20 My 1921.
- Howe, I. A.** My botanical work in 1920. Vermont Bot. and Bird Clubs Joint Bull. 7: 11, 12. Ap 1921.
- Huard, V. A.** Some problems in botany and entomology. Rep. Quebec Soc. Protect. Plants 11: 33, 34. 1919.
- Janowski, M., & Mez, C.** Arundinelleae, in Mez, C., Gramineae novae vel minus cognitae. Repert. Spec. Nov. Regn. Veg. 17: 84-86. 1 Ap 1921.  
Includes *Arundinella glauca* sp. nov., from Mexico.
- Jeffrey, E. C.** The geographical distribution of species. Science 11. 53: 556. 17 Je 1921.
- Jeffrey, E. C., & Torrey, R. E.** Transitional herbaceous Dicotyledons. Ann. Bot. 35: 227-249. *pl.* 11-13 + *f.* 1-5. Ap 1921.
- Kearney, T. H.** Heritable variations in an apparently uniform variety of cotton. Jour. Agr. Research 21: 227-242. *pl.* 48-54 + *f.* 1. 16 My 1921.
- Kittredge, E. M.** Collections in Woodstock [Vermont] in 1920. Vermont Bot. and Bird Clubs Joint Bull. 7: 24, 25. Ap 1921.
- Kittredge, E. M.** New plants and new stations. Vermont Bot. and Bird Clubs Joint Bull. 7: 14. Ap 1921.
- Knief, H.** Über *Urocystis Anemones* (Pers.) Winter. Zeitschr. Bot. 13: 289-311. *pl.* 3. 1921.
- Korstian, C. F.** Diameter growth in box elder and blue spruce. Bot. Gaz. 71: 454-461. *f.* 1-3. 17 Je 1921.
- Krieger, L. C. C.** Common mushrooms of the United States. Nat. Geog. Mag. 37: 387-439. *pl.* 1-16 + 38 figures. My 1920.
- Krout, W. S.** Treatment of celery seed for the control of *Septoria* blight. Jour. Agr. Research 21: 369-372. 1 Je 1921.
- Lee, H. A.** Black spot of citrus fruits caused by *Phoma citricarpa* McAlpine. Philipp. Jour. Sci. 17: 635-641. *pl.* 1-4. 20 Ap 1921.
- MacDuffie, R. C.** Vessels of the gnetalean type in Angiosperms. Bot. Gaz. 71: 438-445. *pl.* 29-32. 17 Je 1921.
- Matz, J.** La enfermedad de la raíz en el café. Puerto Rico Dept. Agric. y Trab. Circ. 32: 1-10. O 1920. [Illust.]

- Matz, J.** Últimos desarrollos en la patología de la caña de azucar. Puerto Rico Dept. Agric. y Trab. Circ. 33: 32-36. D 1920.
- Mazza, A.** Aggiunte al saggio di algologia oceanica (Florideae). Nuov. Notar. **32**: 73-132. 1921.  
Includes *Fauchea Fryeana* sp. nov., from Washington.
- Merrill, E. D.** A new genus of Myrsinaceae from the Philippines. Philipp. Jour. Sci. **17**: 605, 606. 20 Ap 1921.  
*Apoia* gen. nov.
- Merrill, E. D.** Studies on Philippine Rubiaceae, IV. Philipp. Jour. Sci. **17**: 425-485. N 1920.
- Murill, W. A.** Cacti and their uses. Sci. Am. **124**: 492, 499, 500. 18 Je 1921 [Illust.].
- Nash, G. V.** *Koelreuteria paniculata*. Addisonia **5**: 61, 62. pl. 191. 18 Je 1921.
- Nash, G. V.** *Pinus Thunbergii*. Addisonia **5**: 55, 56. pl. 188. 18 Je 1921.
- Nash, G. V.** *Pterostyrax hispida*. Addisonia **5**: 59, 60. pl. 190. 18 Je 1921.
- Nash, G. V.** *Rosa* "Edith Cavell." Addisonia **5**: 49. pl. 185. 18 Je 1921.
- Orla-Jensen, S.** The main lines of the natural bacterial system. Jour. Bact. **6**: 263-273. My 1921.
- Pammel, L. H.** The native white pine of Iowa. Ames For. **9**: 30-32. 1921.
- Pennell, F. W.** *Penstemon secundiflorus*. Addisonia **5**: 53, 54. pl. 187. 18 Je 1921.  
Plate is of *P. unilateralis* Rydb., although the text describes *P. secundiflorus* Benth.
- Piper, C. V.** Some new plants from the Pacific Northwest. Proc. Biol. Soc. Washington **33**: 103-106. 30 D 1920.  
Includes new species in *Erysimum* (1), *Arabis* (1), *Castilleja* (2), *Aster* (1), *Achillea* (1), and *Arnica* (3).
- Priore, G. L.** Il verderame dei tabacchi occidentali. Boll. Tecn. R. Istit. Sci. Sperim. Tabacco **18**: 3-11. Mr 1921.
- Rand, F. V., & Cash, L. C.** Stewart's disease of corn. Jour. Agr. Research **21**: 263, 264. 16 My 1921.
- Ridlon, H. C.** A season's botanizing in Bennington [Vermont]. Vermont Bot. and Bird Clubs Joint Bull. **7**: 19-21. Ap 1921.
- Rose, J. N.** *Epiphyllum Hookeri*. Addisonia **5**: 63, 64. pl. 192. 18 Je 1921.

- Rusby, H. H.** A strange fruit. *Torreya* **21**: 47-50. Je 1921. [Illust.]  
*Jarilla Sesseana* (Ramirez) Rusby, of Mexico.
- Schlechter, R.** *Basiphyllaea* Schltr., eine verkannte westindische Orchidacee. Repert. Spec. Nov. Regn. Veg. **17**: 76-78. 1 Ap 1921.  
*Basiphyllaea* gen. nov., from Cuba.
- Schlechter, R., & Hoehne, F. C.** Contribuições ao conhecimento das Orquidáceas do Brasil, I. Anex. Mem. Instit. Butantan Bot. **12**: 1-48. pl. 1-11. 1921.  
Includes new species in *Habenaria* (6), *Stelis* (2), *Pleurothallis* (1), *Epidendrum* (1), *Cyrtopodium* (2), *Maxillaria* (1).
- Seifríz, W.** Observations on some physical properties of protoplasm by aid of microdissection. Ann. Bot. **35**: 269-296. 1 fig. Ap 1921.
- Setchell, W. A., Goodspeed, T. H., & Clausen, R. E.** A preliminary note on the results of crossing certain varieties of *Nicotiana Tabacum*. Proc. Nat. Acad. Sci. **7**: 50-56. 15 F 1921.
- Shamel, A. D.** Origin of the striped oleander. Jour. Hered. **12**: 42-45. f. 29-31. 6 Je 1921.
- Shear, C. L., & Dodge, B. O.** The life history and identity of "*Patellina Fragariae*," "*Leptothyrium macrothecium*," and "*Peziza Oenotherae*." Mycologia **13**: 135-170. pl. 8-10 + f. 1-5. 25 Je 1921.  
*Pezizella Lythri* (Desm.) comb. nov.
- Smith, E. F., & Godfrey, G. H.** Bacterial wilt of castor bean (*Ricinus communis* L.). Jour. Agr. Research **21**: 255-262. pl. 55-67 + f. 1. 16 My 1921.
- Smith, E. F., & McKenney, R. E. B.** The present status of the tobacco blue-mold (*Peronospora*) disease in the Georgia-Florida district. U. S. Dept. Agr. Circ. 181: 1-4. 7 Je 1921.
- Spegazzini, C.** Algunas observaciones relativas a las hojas de Coca (*Erythroxylon Coca* Lam.). Anal. Soc. Cient. Argentina **90**: 23-32. 1920.  
Includes new species in *Sphaerella* (1), *Ravenelula* (1), *Protomyces* (1).
- Spegazzini, C.** Sobre algunas enfermedades y hongos que afectan las plantas de "agrios" en el Paraguay. Anal. Soc. Cient. Argentina **90**: 155-188. 1920. [Illust.]  
Includes *Amyliroa*, *Ephelidium*, *Pseudohaplosporella*, *Pseudodiplodia* gen. nov., and new species in *Odontia* (1), *Eutypella* (1), *Eutypa* (1), *Cryptosporella* (1), *Ustilina* (1), *Didymella* (1), *Melanomma* (2), *Lophidiopsis* (1), *Amyliroa* (1).
- Suessenguth, K.** Beiträge zur Frage des systematischen Anschlusses der Monokotylen. Beih. Bot. Centralbl. **38**: 1-79. f. 1-18. 15 F 1921.



- Sydow, H. & P.** Notizen über einige interessante oder wenig bekannte Pilze. *Ann. Mycol.* **18**: 178-187. Ap 1921.  
Includes *Rhizogene* gen. nov.
- Taylor, M. A.** The figworts [Scrophulariaceae] of Ohio. *Ohio Jour. Sci.* **21**: 217-239. My 1921.
- Tisdale, W. H., & Griffiths, M. A.** Flag smut of wheat and its control. U. S. Dept. Agr. Farm. Bull. 1213: 1-6. *f. 1, 2.* My 1921.
- Trelease, S. F.** The relation of salt proportions and concentrations to the growth of young wheat plants in nutrient solutions containing chloride. *Philipp. Jour. Sci.* **17**: 527-603. *f. 1-12.* 20 Ap 1921.
- Ule, E.** Die Vegetation des Amazonasgebietes. *Verh. Bot. Ver. Brandenburg* **57**: 56-75. *f. 1-4.* 20 Je 1915.
- Urban, I.** Sertum antillanum, X. *Repert. Spec. Nov. Regn. Veg.* **17**: 6-11. 1 Ja 1921.  
Includes *Penelopeia* gen. nov., and new species in *Exostema* (1), *Guetlardia* (1) *Uragoga* (1), and *Eupatorium* (5).
- Urban, I.** Sertum antillanum, XI. *Repert. Spec. Nov. Regn. Veg.* **17**: 49-54. 1 Ap 1921.  
Includes new species in *Eupatorium* (7), *Aster* (1), *Erigeron* (1), and *Pectis* (2).
- Weimer, J. T., & Harter, L. L.** Glucose as a source of carbon for certain sweet potato storage-rot fungi. *Jour. Agr. Research* **21**: 189-210. 16 My 1921.
- Weiss, H. B.** Diptera and fungi. *Proc. Biol. Soc. Washington* **34**: 85-88. 30 Je 1921.
- Wells, B. W.** A method of teaching the evolution of the land plants. *Torreya* **21**: 45-47. [*with diagram*]. Je 1921
- Weston, W. H.** The occurrence of wheat downy mildew in the United States. U. S. Dept. Agr. Dept. Circ. 186: 1-6. Je 1921.
- Wetmore, A.** Wild ducks and duck foods of the Bear River marshes, Utah. U. S. Dept. Agr. Bull. 936: 1-20. *pl. 1-4.* 31 My 1921.  
Section on "vegetable foods" gives the abundance of each species.
- Winslow, C.-E. A.** William Thompson Sedgwick. *Jour. Bact.* **6**: 255-262. My 1921. [*With portrait.*]  
In his earlier years Professor Sedgwick published some botanical papers.
- Young, M. S.** The seed plants, ferns, and fern allies of the Austin [Texas] region. *Univ. Texas. Bull.* 2065: 1-98. 20 N 1920.
- Zahn, K. H.** Compositae-*Hieracium* [pars]. *Pflanzenreich* IV. 280: 1-288. *f. 1-27.* 4 F 1921.
- Zundel, G. L.** Smuts and rusts of northern Utah and southern Idaho. *Mycologia* **13**: 179-183. 25 Je 1921.